

Message Text

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ACTION EB-06

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P R 211455Z OCT 74

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INFO AMEMBASSY BONN

USIA WASHDC

UNCLAS SECTION 1 OF 2 GENEVA 06452

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SUBJ: ITU: REGIONAL LF/MF BROADCASTING CONFERENCE (OCT 13-19)

REF: GENEVA 6369

USIA FOR JACOBS, VOA

SUMMARY (OCTOBER 13-19): CHANNEL SPACING ISSUE REMAINED UNRESOLVED DURING WEEK DESPITE NUMEROUS SESSIONS OF COMMITTEE 4 AND ITS WORKING GROUPS AND REMAINED CRITICAL TO PLANNING METHOD WORK OF COMMITTEE 5 WHICH HAD AN EXTREMELY BUSY WEEK WITH FOUR SUB-GROUPS AS WELL AS COMMITTEE AS WHOLE IN SESSION MORNING, AFTERNOON, EVENING AND ALL DAY SATURDAY. COMMITTEE 4 MEETS AGAIN OCT 21 TO ATTEMPT TO RESOLVE CHANNEL SPACING ISSUE. COMMITTEE 4 WORKING GROUP B RESOLVED QUESTION OF PROTECTION RATIOS BY DECIDING THAT FOR PLANNING PURPOSES FOLLOWING VALUES OF CO-CHANNEL PROTECTION RATION SHOULD BE USED: 30 DB FOR STABLE WANTED SIGNAL INTERFERRED BY STABLE OR FLUCTUATING SIGNAL; 27 DB FOR FLUCTUATING WANTED SIGNAL INTERFERRED BY STABLE OR FLUCTUATING SIGNAL; IN CASES OF FLUCTUATING WANTED OR UNWANTED SIGNAL THESE VALUES APPLY FOR AT LEAST 50 PERCENT OF NIGHTS OF YEAR AT MIDNIGHT. WORKING GROUP B, HOWEVER, ADDED THAT "SOME COUNTRIES PROPOSED HIGHER

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VALUES UP TO 40 DB AND 37 DB RESPECTIVELY. THESE VALUES MAY

BE ADOPTED IN SOME PARTICULAR CASES, FOLLOWING AGREEMENT BETWEEN ADMINISTRATIONS CONCERNED."

PLENARY ADOPTED 1ST SERIES OF TEXTS OCT. 16, INCLUDING CHAPTERS 1 (DEFINITIONS); 2.3 IONOSPHERIC CROSS MODULATION); AND 44 (RADIATED POWER OF TRANSMITTING STATIONS); BUT RETURNED CHAPTER 8 (BANDS SHARED BETWEEN BROADCASTING SERVICE AND OTHER RADIO COMMUNICATION SERVICES) TO COMMITTEE 4 FOR REWORKING. (CHAPTER 8 WAS RE-DONE DURING WEEK AND IS RE-SUBMITTED FOR PLEARNARY CONSIDERATION OCT .21).

COMMITTEE 2 ISSUES ITS FINAL REPORT STATING THAT 63 DELEGATIONS HAD CREDENTIALS IN ORDER; SIX DELEGATIONS DID NOTV AND 18 DELEGATIONS HAD NOT YET DEPOSITED CREDENTIALS.

COMMITTEE 3, WHICH DID NOT MEET DURING WEEK, WILL HOLD ITS FINAL MEETING OCT. 21.

COMMITTEE 6 DEFERRED DECISION ON FINAL DATE BY WHICH REQUIREMENTS SUBMITTED BY ADMINISTRATIONS FOR ASSIGNMENT PLAN MUST REACH ITU UNTIL AFTER PLENARY OF OCT 21. COMMITTEE APPROVED DRAFT FORM, INSTRUCTIONS AND DEFINITIONS FOR SUBMISSION TO ADMINISTRATIONS IMMEDIATELY FOLLOWING FIRST SESSION OF CONFERENCE.

COMMITTEE 7 COMPLETED 2ND AND 3RD SERIES OF TEXTS FOR SUBMISSION TO OCT 21 PLENARY. 2ND SERIES INCLUDES DRAFTS OF FOLLOWING CHAPTERS OF CONF 1ST SESSION REPORT: 1, 2.1, 3.2, 3.3, 4.1.1, APENDIX A; 3RD SERIES INCLUDES CHAPTERS 2.2, 5.1, 5.2, 8 AND APENDIX B. END SUMMARY

1. PLENARY: IN ADDITION TO DECISIONS REPORTED IN SUMMARY ABOVE, PLENARY ALSO DECIDED (1) THAT DELEGATION PROPOSALS FOR CONSIDERATION BY FIRST SESSION COULD CONTINUE TO BE SUBMITTED WITHOUT FIXED DEADLINE; (2) DEFERRED DECISION ON FORM OF REPORT OF FIRST SESSION UNTIL SUBSEQUENT MEETING; AND (3) HELD INCONCLUSIVE DEBATE ON WHETHER OR NOT DELEGATION HEADS OR CONF PRESIDENT ALONE SHOULD SIGN FINAL REPORT OF FIRST SESSION OR WHETHER BECAUSE THIS WAS MERELY FIRST SESSION OF CONFERENCE, NO SIGNATURES WERE NEEDED. SECRETARIAT OFFICIALS UNCLASSIFIED

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EXPLAIN THAT LEGALLY IT DOES NOT APPEAR NECESSARY TO HAVE ANY SIGNATURES ON REPORT, BUT SOME DELEGATIONS (AND IFRB MEMERS) FEARFUL THAT UNLESS HEADS OF DELEGATION SIGN FINAL REPORT OF SESSION, RESULTS OF THREE WEEKS' WORK MAY NOT BE REGARDED AS MORALLY BINDING AND SECOND SESSION WILL HAVE TO RECONSIDER TECHNICAL STANDARDS BEFORE BEGINNING ITS PRINCIPAL WORK OF DRAWING UP FREQUENCY ASSIGNMENT PLAN.

2. COMMITTEE 2 (CREDENTIALS) -- WORKING GROUP HELD SECOND MEETING OCT 16 TO EXAMINE CREDENTIALS SUBMITTED SINCE OCT 9. GROUP FOUND DELEGATIONS OF 63 COUNTRIES, INCLUDING ASSOCIATE MEMBER PAPUA NEW GUINEA, HAD CREDENTIALS IN ORDER; DELEGATIONS OF SIX COUNTRIES - DAHOMEY, INDONESIA, JORDAN, MONGOLIA, QATAR AND TANZANIA-- DID NOT RPT NOT HAVE CREDENTIALS IN ORDER; AND DELEGATIONS OF 18 COUNTRIES HAVE NOT RPT NOT YET DEPOSITED CREDENTIALS. IN SHORT 87 DELEGATIONS FROM AS MANY COUNTRIES ARE PARTICIPATING IN CONFERENCE. 117 COUNTRIES WERE ELIGIBLE TO PARTICIPATE. COMMITTEE 2 WILL HOLD ITS FINAL MEETING ON OCTOBER 21.

3. COMMITTEE 3 (BUDGET CONTROL): COMMITTEE, WHICH DID NOT MEET DURING WEEK WILL HOLD ITS FINAL MEETING OCTOBER 21.

4. COMMITTEE 4 (TECHNICAL DATA AND CRITERIA): COMMITTEE AND ITS WORKING GROUPS MET MORNING, AFTERNOON AND EVENING DURING PERIOD OCT 12-19 AND AGREED ON SKY WAVE PROPAGATION PREDICTION METHODS AND ON RADIO FREQUENCY PROTECTION RATIOS, BUT LEFT UNRESOLVED ALL-IMPORTANT QUESTION OF CHANNEL SPACING. COMMITTEE SCHEDULED TO MEET OCTOBER 21 TO ATTEMPT TO RESOLVE LATTER ISSUES. IN GENERAL EUROPEANS (CEPT) WANT 8 KHZ CHANNEL SPACING TO OBTAIN FOR FREQUENCIES AND ESTABLISH ORDERLY ASSIGNMENT PLAN. ASIANS, LESS PRESSED TO OBTAIN MORE FREQUENCIES, WANT 10 KHZ TO GUARANTEE HIGH QUALITY RECEPTION AND SYSTEM; AFRICANS AND SOVIETS WANT STATUS QUO, 9 KHZ, MAINLY TO RELIEVE THEMSELVES OF NEED TO RETUNE AND ADJUST TRANSMITTERS AND PURCHASE NEW EQUIPMENT.

5. COMMITTEE'S AD HOC GROUP ON CHANNEL SPACING, HEADED BY T. KILVINGTON (UK) ON REQUEST OF COMMITTEE CHAIRMAN ISSUED ONE PAGE WORKING PAPER LISTING CHANGES TO CHANNEL FREQUENCIES WHICH WOULD RESULT FROM ADOPTION OF VARIOUS CHANNELING ARRANGE-
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MENTS AND SHOWING FREQUENCY CHANGES NECESSARY WITH ADOPTION OF NEW PLANS AND NUMBER OF CHANNELS WHICH WOULD BE UNFILLED WITH EACH. IT WAS POINTED OUT IN COMMITTEE AND CORRIDOR DISCUSSIONS THAT COST OF ADJUSTMENT TO NEW UNIFORM CHANNEL SPACING WOULD NOT BE AS COSTLY IN NEW EQUIPMENT OR AS DIFFICULT FROM ENGINEERING VIEWPOINT AS SEEMED TO BE GENERAL BELIEF.

6. IN THIS CONNECTION NEW ZEALAND DEL (CARTER) POINTED OUT TO TEL ATT THAT IF REGIONS 1 AND 3 WERE TO ADOPT 9 KHZ CHANNEL SPACING AND REGION 2 WERE TO REMAIN ON 10 KHZ THERE WOULD BE INTERFERENCE (NOISE) IN HAWAII FROM JAPAN AND IN TURN FURTHER SOUTH, IF SIERRA LEONE IN WEST AFRICA WERE TO INCREASE POWER OF ITS FREETOWN TRANSMITTER TO 300 KW ON 9 KHZ, THERE WOULD BE INTERFERENCE WITH BRAZILIAN STATION AT RECIFE, NOW ON 10 KHZ CHANNEL SPACING. NEW ZEALANDER, WITH OTHERS, RECOMMENDED

THAT REGION 2 ADOPT UNIFORM CHANNEL SPACING WITH REGIONS 1 AND 3 ON ASSUMPTION LATTER ABLE FINALLY TO AGREE ON SINGLE STANDARD.

7. COMMITTEE ADOPTED WORKING GROUP A PROPOSAL THAT FOLLOWING SIX PROCEDURES FOR SKY WAVE PROPAGATION PREDICTION METHODS BE

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ACTION EB-06

INFO OCT-01 IO-04 ISO-00 CCO-00 CIAE-00 OTPE-00 FCC-01

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ARA-06 EA-06 EUR-08 NEA-06 L-02 OMB-01 TRSE-00 /053 W

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TO SECSTATE WASHDC PRIORITY 8807

INFO AMEMBASSY BONN

USIA WASHDC

UNCLAS SECTION 2 OF 2 GENEVA 6452

USIA FOR JACOBS, VOA

ADOPTED FOR LF/MF PLANNING:

"1) WITHIN ITU REGION 1 AND FOR AUSTRALIA AND NEW ZEALAND, THE METHOD RECOMMENDED IN CCIR RECOMMENDATION 435-1, DESCRIBED IN SECTION 7 AND IN THE ANNEX OF REPORT 575(DOCUMENT 6/1083 (REV.1)), SHOULD BE USED. IN ITU REGION 1 THE BASIC PROPAGATION FORMULA IS GIVEN BY EQUATION (1) OF THE ANNEX OF REPORT 575. IN AUSTRALIA AND NEW ZEALAND THE BASIC PROPAGATION IS GIVEN BY EQUATION (13) OF THE ANNEX OF REPORT 675.

"2) WITHIN THE ASIAN PART OF REGION 3 THE CAIRO-NORTH-SOUTH CURVE, GIVEN IN FIG.13 OF CCIR REPORT 431 (DOC. 6/1063) OR A MATHEMATICAL FORMULA WHICH GIVES THE SAME RESULT, SHOULD BE USED. NO CORRECTION SHOULD BE MADE FOR SEA GAIN OR FOR POLARIZATION COUPLING LOSS.

"3) FOR SKY-WAVE FIELD-STRENGTH PREDICTION, THE BOUNDARY BETWEEN AUSTRALIA AND NEW ZEALAND AND THE ASIAN PART OF REGION 3, SHALL BE DESCRIBED BY GEOGRAPHIC LATITUDE 11 DEGREES SOUTH.

"4) THE METHOD WHICH SHOULD BE USED FOR PATHS WHICH PASS FROM ONE REGION TO ANOTHER SHOULD BE THAT WHICH APPLIES AT UNCLASSIFIED

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THE MID-POINT OF THE GREAT-CIRCLE PATH.

"5) WITHIN THE WHOLE OF ITU REGIONS 1 AND 3, THE REFERENCE TRANSMITTING SERIAL IS A SEMI-ISOTROPIC SOURCE WHICH RADIATES WITH A CYCOMOTIVE FORCE OF 300 V OR AN E.M.R.P. OF 1 KW. CORRECTION MUST BE APPLIED TO CALCULATED FIELD-STRENGTHS TO TAKE ACCOUNT OF THE ACTUAL CYCOMOTIVE FORCE, WHICH SHOULD BE DETERMINED BY ONE OF THE METHODS DESCRIBED IN SECTION 1.2 OF CCIR REPORT 618 (DOCUMENT 10/1003). SECTION 2.2. OF THE ANNEX TO CCIR REPORT 575 SHOULD BE DISREGARDED.

"6) WITHIN THE WHOLE OF ITU REGIONS 1 AND 3, THE CORRECTIONS FOR NOCTURNAL, DAY-TO-DAY AND SHORT-PERIOD VARIATIONS OF FIELD-STRENGTH, GIVEN IN SECTIONS 3 AND 4 OF THE ANNEX TO CCIR REPORT 575, SHOULD BE APPLIED."

8. COMMITTEE ADOPTED WORKING GROUP A RECOMMENDATIONS CONCERNING DIRECTIONAL ANTENNAE AS REPORTED IN LAST WEEK'S REFTEL (DRAFTING GROUP A-3)

9. COMMITTEE ALSO ADOPTED GROUP B RECOMMENDATIONS RE RADIO FREQUENCY PROTECTION RATIOS AS REPORTED SUMMARY ABOVE. WORKING GROUP B'S ADDED RECOMMENDATIONS ON THIS SUBJECT INCLUDED: "1) RADIO FREQUENCY PROTECTION RATIOS ARE DEFINED IN CCIR RECOMMENDATION 447, PARA 4; (2) ADJACENT CHANNEL PROTECTION RATIO MAY BE TAKEN FROM CCIR RECOMMENDATION 449; (3) INTERNAL PROTECTION RATIO OF 1 DB SHALL BE ADOPTED FOR DETERMING SERVICE AREA OF SYNCHRONIZED NETWORK; AND (4) BY SELECTING INTEGRAL MULTIPLES OF CHANNEL SPACING FOR FUTURE USE AS RECEIVER'S INTERMEDIATE FREQUENCY OR FREQUENCIES SOME ADVANTAGE MAY BE ACHIEVED IN REDUCING RECEIVER-INTERNAL INTERFERENCE. SUCH ARRANGEMENT IS OF INTEREST ONLY WHEN VALUES OF CARRIER FREQUENCIES ARE THEMSELVES INTEGRAL MULTIPLES OF THEIR SPACING."

10. COMMITTEE ADOPTED WORKING GROUP B RESOLUTION FOR SUBMISSION TO PLENARY REQUESTING THAT (1) CCIR SPEED UP ITS STUDIES OF BANDWIDTH SAVING MODULATION METHODS WITH PARTICULAR REFERENCE TO TECHNICAL, OPERATIONAL AND ECONOMIC ASPECTS OF SINGLE SIDEBAND AND INDEPENDENT SIDEBAND MODULATION; AND (2) THAT NEXT COMPETENT WORLD ADMINISTRATIVE RADIO CONFERENCE DECIDE ON BASIS OF RESULTS OF ABOVE STUDIES OF CCIR SUCH UNCLASSIFIED

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TECHNIQUES IN LF/MF BROADCASTING SERVICE.

11. FINALLY COMMITTEE ADOPTED WORKING GROUP B REPORTS ON "NOISE, MINIMUM FIELD STRENGTH, SERVICE, SERVICE AREA" AND "FREQUENCY DEPENDENCE

OF MINIMUM FIELD STRENGTH, SERVICE AREA".

12. IFRB, ON COMMITTEE REQUEST, PUBLISHED EXTRACT FROM TECHNICAL STANDARD A-2: MINIMUM FIELD STRENGTH TO BE PROTECTED (PAGES 1 TO 7 AND 22).

13. COMMITTEE 5 (PLANNING METHODS): WORKING GROUP RECOMMENDED THAT CONFERENCE ADOPT FOLLOWING PLANNING PRINCIPLES: (1) PLAN WILL BE DRAWN UP IN ACCORDANCE WITH PRINCIPLE THAT ALL COUNTRIES, LARGE AND SMALL, HAVE EQUAL RIGHTS. (2) PLAN WILL ALSO BE BASED ON REQUIREMENTS OF ADMINISTRATIONS AND SHOULD BRING ABOUT SATISFACTORY RECEPTION CONDITIONS IN ALL COUNTRIES HAVING REGARD TO THE DIFFERENT SITUATIONS OF COUNTRIES IN REGIONS 1 AND 3 AND, IN PARTICULAR, NEEDS OF DEVELOPING COUNTRIES. (3) PLAN WILL BE DRAWN UP HAVING REGARD TO GROUND-WAVE SERVICE AREAS AND, IN CERTAIN CASES, OF SPACE-WAVE SERVICE AREAS. GROUND-WAVE MAY BE USED TO COVER LARGE OR SMALL AREAS; (4) IT IS EXTREMELY DESIRABLE THAT CHANNEL SPACING SHOULD BE UNIFORM OVER WHOLE AREA COVERED BY PLAN; (5) NOMINAL FREQUENCIES OF CHANNELS WILL BE WHOLE NUMBER MULTIPLES OF CHANNEL SPACING INTERVAL; AND (6) INTERMEDIATE FREQUENCIES OF RECEIVERS WILL BE WHOLE-NUMBER MULTIPLES OF CHANNEL INTERVAL.

14. WORKING GROUP A ALSO RECOMMENDED DEFINITIONS FOR 1) NOMINAL USABLE FIELD STRENGTH; 2) NOMINAL SERVICE AREA (OF A BROADCASTING TRANSMITTER); 3) USABLE FIELD STRENGTH AND 4) SERVICE AREA (OF A BROADCASTING TRANSMITTER (DOCUMENT 91).

15. WORKING GROUPS A-1 AND A-3, REPORTED ON PLANNING MEDIUM WAVE BAND 525-1 605 KHZ, WERE OF OPINION THAT TWO PROCEDURES FOR PLANNING OF BAND--SPLITTING BAND INTO SUB-BANDS FOR USE OF SKY-WAVE AND SKY-WAVE SERVICES--SHOULD BE REFERRED TO SECOND SESSION OF CONFERENCE AND THAT COORDINATION OF ASSIGNMENTS TO COUNTRIES USING DIFFERENT METHODS COULD TAKE PLACE AT THAT TIME.

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16. RE PLANNING OF 150-285 KHZ BAND: GROUPS CONSIDERED THAT LF BAND SHOULD BE USED FOR COVERAGE OF LARGE AREAS AND THAT, IN

AREAS WHERE LF BAND IS USED, ITS USE SHOULD BE PLANNED IN CONJUNCTION WITH LOWER END OF MF BAND.

17. WORKING GROUP B SUBMITTED DRAFT RECOMMENDATION ON LOW POWER CHANNELS (DESIGNED TO REPLACE INTERNATIONAL COMMON FREQUENCIES) RECOMMENDING "THAT CHANNEL ALLOCATIONS FOR LPCS SHALL NOT BE ADJACENT TO THOSE EMPLOYED FOR SERVICES OPERATING WITH LOW USABLE FIELD STRENGTHS; THAT LPCS SHALL BE SEPARATED FROM EACH OTHER IN FREQUENCY IN ORDER TO ALLOW SIMULTANEOUS USE IN ONE AREA; AND THAT LPCS SHALL BE RESERVED FOR TRANSMITTERS WHICH CANNOT FORM PART OF A SYNCHRONIZED NETWORK ON ANOTHER CHANNEL.

18. WORKING GROUP B ALSO SUBMITTED DRAFT RECOMMENDATION RECOMMENDING "THAT IN DEVELOPING THEIR BROADCASTING NETWORK IN THE LF AND MF BANDS ADMINISTRATIONS USE SYNCHRONIZED NETWORKS TO MAXIMUM EXTENT POSSIBLE." GROUP DEFINED SYNCHRONIZED NETWORKS AS "GROUP OF BROADCASTING TRANSMITTERS WHOSE CARRIER FREQUENCIES ARE IDENTICAL OR DIFFER ONLY SLIGHTLY, USUALLY BY A FRACTION OF AN HZ AND WHICH BROADCAST THE SAME PROGRAM." GROUP ALSO PREPARED AN APPENDIX FOR CONF REPORT ON "CALCULATION OF INTERFERENCE IN CASE OF A SYNCHRONIZED NETWORK." MAJOR ADVANTAGE CITED FOR THEIR RECOMMENDATION WAS THAT "IN VIEW OF PRESENT CONGESTION OF LF AND MF BANDS, TRANSMITTER SYNCHRONIZATION IS ONE OF FEW WAYS OF KEEPING MOST OF TRANSMITTERS IN OPERATION IN A COUNTRY AND REDUCING NUMBER OF CHANNELS REQUIRED."

19. COMMITTEE 6 (SUBMISSION OF FREQUENCY REQUIREMENTS)--SEE SUMMARY. COMMITTEE 7 (EDITORIAL)--SEE SUMMARY. ABRAMS

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